PART B - FEE(S) TRANSMITTAL





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09/03/2004

ROBERT E BUSHNELL 1522 K STREET, N.W. SUITE 300 WASHINGTON, DC 200051202 10/01/2004 SSITHIB2 00000239 08931125

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(Depositor's name) (Signature) (Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
APPLICATION NO.	Tiblino Billia		P54508	3842
08/931.125	09/16/1997	HAE-SEUNG LEE	F34306	30.12

3 TITLE OF INVENTION: MEMORY SYSTEM FOR IMPROVING DATA INPUT/OUTPUT PERFORMANCE AND METHOD OF CACHING DATA RECOVERY INFORMATION

APPLN. TYPE	SMALL ENTITY	ISSUE FEE		PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE		
nonprovisional	NO	\$1330		\$300	\$1630	12/03/2004		
EXAMINER		ART UNIT		CLASS-SUBCLASS				
PORTKA, GARY J		2188		711-114000				
1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.					
3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type) PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment. (A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)								
SAMSUNG ELECTRONICS CO., LTD. Suwon-city, Gyeonggi-do, KOREA Please check the appropriate assignee category or categories (will not be printed on the patent): Individual Corporation or other private group entity Government								
4a. The following fee(s) as		41	o. Payment o	f Fee(s):				
Issue Fee			KA check in the amount of the fee(s) is enclosed.					
Publication Fee (No small entity discount permitted)		Payment by credit card. Form PTO-2038 is attached.						
Advance Order - # of Copies			The Director is hereby authorized by charge the required fee(s), or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).					
	us (from status indicated above SMALL ENTITY status. See O is requested to apply the Is Publication Fee (if required)	27 CED 1 27	b. Appl	licant is no longer claiming SMA any) or to re-apply any previou ne other than the applicant; a re	ALL ENTITY status. See 37 sly paid issue fee to the appli	CFR 1.27(g)(2). cation identified above. the assignee or other party in		
Authorized Signature	114,63	tent and Trademark	Office.		O September 200			

Typed or printed name Robert E. Bushnell This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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Registration No. 27,774

PTO/SB/17 (08-00)

\$1630.00

Approved for use through 9/30/2000. OMB 0651-0032
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE Patent and Tradentation Onice. U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. Complete If Known **FEE TRANSMITTAL** 08/931,125 Application Number 16 September 1997 fees are subject to annual revision. Filing Date HAE-SEUNG LEE First Named Inventor PORTKA, GARY J 0 2004 Examiner Name 2188 Group/Art Unit P54508 Attorney Docket No. PAYMENT (\$) <u>1630.00</u> **FEE CALCULATION (continued) METHOD OF PAYMENT (check one)** 3. ADDITIONAL FEES The Commissioner is hereby authorized to charge any 1. deficiencies: Large Entity **Small Entity** Deposit Account Number: 02-4943 Fee Paid Fee Fee Fee Description Fee Fee (\$) Code (\$) Code Surcharge-late filing fee or oath 65 Charge Any Additional Fee Required Under 37 C.F.R. §1.16 and 2051 1051 130 Surcharge-late provisional filing fee or cover sheet \$ 1052 50 2052 25 Applicant claims small entity status. See 37 CFR 1.27 Non-English specification \$ 1053 130 1053 130 For fling a request for reexamination \$ 1812 2.520 1812 2.520 2. Payment Enclosed: (CHECK #48145) Requesting publication of SIR prior to Examiner 1804 920* 920* 1804 Check Requesting publication of SIR after Examiner action \$ 1,840 * 1805 1,840 1805 FEE CALCULATION Extension for reply within first month 110 2251 55 1251 1. BASIC FILING FEE \$ Extension for reply within second month 2252 210 420 1252 arge Entity Small Entity \$ 475 Extension for reply within third month 950 2253 1253 Fee Fee Fee Fee Paid **Fee Description** Extension for reply within fourth month 740 Code (\$) 1,480 2254 Code (\$) 1254 Extension for reply within fifth month 2255 1.005 \$ 1255 2,010 385 Utility filing fee 1001 770 2001 330 2401 165 Notice of Appeal 1401 \$ 2002 170 Design filing fee 1002 340 Filing a brief in support of an appeal 1402 330 2402 165 Plant filing fee 2003 265 1003 530 Request for oral hearing 1403 290 2403 145 Reissue filing fee 385 1004 770 2004 Petition to institute a public use proceeding 1451 1.510 1451 1.510 Provisional filing fee 160 2005 80 1005 Petition to revive - unavoidable 1452 110 2452 55 (\$) 0.00SUBTOTAL (1) Petition to revive - unintentional 1,330 2453 665 1453 2. EXTRA CLAIM FEES \$1,330.00 665 Utility issue fee (or reissue) 1501 1,330 2501 Fee Extra Fee from **Claims** below Paid 2502 240 Design issue fee 1502 480 2503 320 Plant issue fee 1503 640 0.00 0 18.00 -20** = X Total claims Petitions to the Commissioner 130 1460 130 1460 86.00 0.00 Independent - 3** = 0 Publication fee for early, voluntary, or normal \$ 300.00 1504 300 1504 300 publication Submission of Information Disclosure Statement \$ 1806 180 1806 180 Multiple Dependent Recording each patent assignment per property 8021 40 8021 40 or number previously paid, if greater; For Reissues, see below \$ (Times number of properties) arge Entity Small Entity Filing a submission after final rejection 2809 385 Fee Description 1809 770 Fee Fee Fee Fee (37 C.F.R. §1.129(a)) Code (\$) Code (\$) For each additional invention to be examined Independent claims in excess of 3 1810 770 2810 385 86 2201 43 1201 \$ (37 C.F.R. §1.129(b)) Claims in excess of 20 1202 18 2202 9 Request for Continued Examination (RCE) \$ 385 1801 770 2801 Multiple dependent claim, if not paid 145 290 2203 1203 s Printed copy of patent w/o color ** Reissue independent claims over 8001 3 1204 86 2204 43 original patent ** Reissue claims in excess of 20 and 1205 18 2205 9 Other Fee (specify) over original patent

SUBTOTAL (3) Complete (if applicable) SUBMITTED BY Typed or Printed 27,774 Reg. Number Robert E. Bushnell, Esq. Name Deposit Account September 30, 2004 Date Signature User ID REB/nv

(\$) <u>0.00</u>

SUBTOTAL (2)

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** Reduced by Basic Filing Fee Paid



THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

HAE-SEUNG LEE

Serial No.:

08/931,125

Examiner:

PORTKA, GARY J

Filed:

16 September 1997

Art Unit:

2188

For:

MEMORY SYSTEM FOR IMPROVING DATA INPUT/OUTPUT

PERFORMANCE AND METHOD OF CACHING DATA RECOVERY

INFORMATION

ISSUE FEE AND PUBLICATION FEE TRANSMITTAL

Mail Stop: ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

This transmittal accompanies a signed Issue Fee Transmittal, PTOL-85, and Applicant's check drawn to the order of the Commissioner of Patents & Trademarks in the amount of U.S. \$1,330.00, including a fee of \$300.00 for Publication Fee.

Respectfully submitted,

Robert E. Bushnell, Esq.

Reg. No.: 27,774

1522 "K" Street, N.W., Suite 300 Washington, D.C. 20005 (202)-408-9040

Enclosures: Issue Fee Transmittal, PTOL-85B, and check No.48145

Folio: P54508

Date: September 30, 2004

REB/ny